

U.S. Patent Application No. 10/681,352  
Amendment dated November 17, 2006

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CENTRAL FAX CENTER  
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**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 - 24 (Canceled)

25. (New) A method for determining treatments for a cancer patient, comprising:

determining what amino acids are encoded by one or more of positions -21, -9, -6, -5, -4, 3, 9, 14, 19, 23, 26, 30, 37, 38, 45, 53, 55, 56, 57, 66, 67, 70, 71, 74, 77, 84, 85, 86, 87, 89, 90, 116, 125, 130, 140, 182, 197, 220, 221, and 224 of the HLA DQB1 \*gene of the patient;

determining what amino acids are encoded by one or more of positions -25, -24, -17, -16, -1, 9, 10, 11, 13, 14, 16, 25, 26, 28, 30, 31, 32, 33, 37, 38, 40, 47, 57, 60, 67, 70, 71, 73, 74, 77, 78, 85, 86, 96, 98, 104, 120, 133, 142, 166, 231, and 233, of the DRB1 \*gene of the patient;

determining what amino acids are encoded by one or more of positions 8, 9, 11, 35, 36, 55, 56, 57, 65, 69, 76 84, 85, 86, and 87, of the DPB1 \*gene of the patient; and

correlating the amino acids encoded at the positions with a cancer treatment having the greatest statically significant probability of prolonging the cancer patient's survival, wherein the cancer treatment comprises immunotherapy, chemotherapy, resection, or a combination thereof.

26. (New) The method of claim 25, wherein the cancer patient comprises stomach cancer.

27. (New) A method for determining treatments for a cancer patient, comprising:

determining what amino acids are encoded by positions -9, 19, 26, 85, 89, 90, and 116 of the HLA DQB1 \*gene of the patient;

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determining what amino acids are encoded by positions 14, 25, 47, and 78, of the DRB1

\*gene of the patient;

determining what amino acids are encoded by positions 9, 36, 55, 69, and 76, of the

DPB1 \*gene of the patient; and

correlating the amino acids encoded at the positions with a cancer treatment having the greatest statically significant probability of prolonging the cancer patient's survival, wherein the cancer treatment comprises immunotherapy, chemotherapy, resection, or a combination thereof.

28. (New) The method of claim 27, wherein the cancer patient comprises stomach cancer.